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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,944	08/21/2003	Jerry M. Brownstein	BROW0005	2977

7590

08/29/2006

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EXAMINER

COLE, ELIZABETH M

ART UNIT

PAPER NUMBER

1771

DATE MAILED: 08/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/646,944

Applicant(s)

BROWNSTEIN ET AL.

Examiner

Elizabeth M. Cole

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 57-60 and 62-71 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 57-60, 62-71 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 71 is rejected under 35 U.S.C. 102(b) as being anticipated by JP 63221187.

JP '187 discloses a method of adsorbing oil comprising the steps of providing delustered polymeric fibers and using the fibers to absorb oil from sea water.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 57, 60-61, 64- 70, 71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mendes, U.S. Patent No. 5,779,392 in view of JP 63221187 and O'Donnell et al, U.S. Patent No. 5,308,497. Mendes discloses a porous containment means having a plurality of hydrophobic, oleophilic organic fibers disposed therein to absorb and contain oil spills. See col. 3, lines 45-50. Mendes differs from the claimed invention because Mendes does not disclose employing delustered fibers and does not disclose that the fibers should be formed by shredding waste. JP '187 teaches that titanium dioxide which is a conventionally used delustrant can be incorporated into organic fibers which are to be used to absorb oil JP '187 teaches that titanium dioxide is an active filler and that it enhances the ability of the fibers to absorb oil. See abstract. Therefore, it would have been obvious to one of ordinary skill in the art at the time the

invention was made to have employed fibers which incorporated titanium dioxide as the oleophilic fibers in Mendes, motivated by the teaching of JP '187 that the use of the titanium dioxide will increase the ability of the fibers to absorb oil. With regard to the step of shredding waste materials, O'Donnell teaches shredding waste fibrous material in order form a fibrous material from the waste materials which can be used as an oil adsorbent. See col. 3, line 64-col. 4, line 15. O'Donnell teaches that shoddy is a suitable source for this waste material. See col. 2. lines 23-35. Therefore, it would have been obvious to have employed shredded waste materials in order to form the adsorbent materials of Mendes. One of ordinary skill in the art would have been motivated to employ waste material such as shoddy by the teaching of O'Donnell that such materials are suitable for use for this purpose. With regard to the length of the fibers, O'Donnell teaches controlling the length of the fibers by how much shredding or grinding the fibers are subjected to. See col. 3, line 64-line 15. With regard to the relative proportion of synthetic and natural fibers, O'Donnell teaches employing 80 wt% shoddy. See examples. Therefore, it would have been obvious to one of ordinary skill in the art to have employed a majority of shoddy to make up the adsorbent material of Mendes, as taught by O'Donnell, motivated by the expectation that such material would be inexpensive and readily available.

5. Claims 58-59, 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mendes, U.S. Patent No. 5,779,392 in view of JP 63221187 and O'Donnell applied to claims above, and

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further in view of Mesek et al, U.S. Patent No. 4045833. Mendes does not teach the use of both long and short fibers.

With regard to the use of long and short fibers, Mesek et al teaches at col. 1, lines 52-68, that employing both long and short fibers in a nonwoven fabric enhances the strength, structural stability and integrity of the fabric. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have employed long and short fibers in the fibrous mass of Mendes. One of ordinary skill in the art would have been motivated to employ long and short fibers in order to enhance the strength and integrity of the nonwoven. It would have been obvious to have optimized the particular lengths and proportions of the fibers in order to obtain a nonwoven having the desired combination of strength and absorbency.

6. Applicant's arguments filed 6/28/06 have been fully considered but are moot in view of the new grounds of rejection. O'Donnell teaches employing waste fibers including both synthetic and natural fibers and teaches employing shoddy as the source for the waste fibers.

7. The Declaration under 37 CFR 1.132 filed 6/38/06 is sufficient to overcome the rejection of claims based upon Mendes in view of DE ' 899 as set forth in the last Office action however. a new grounds of rejection employing the O'Donnell reference is set forth above. O'Donnell teaches employing waste fibers from shoddy to make oil adsorbent materials.

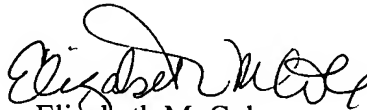
8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth M. Cole whose telephone number is (571) 272-1475. The examiner may be reached between 6:30 AM and 6:00 PM Monday through Wednesday, and 6:30 AM and 2 PM on Thursday.

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Mr. Terrel Morris, the examiner's supervisor, may be reached at (571) 272-1478.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The fax number for all official faxes is (571) 273-8300.

A handwritten signature in black ink, appearing to read "Elizabeth M. Cole", is positioned above the printed name.

Elizabeth M. Cole
Primary Examiner
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e.m.c